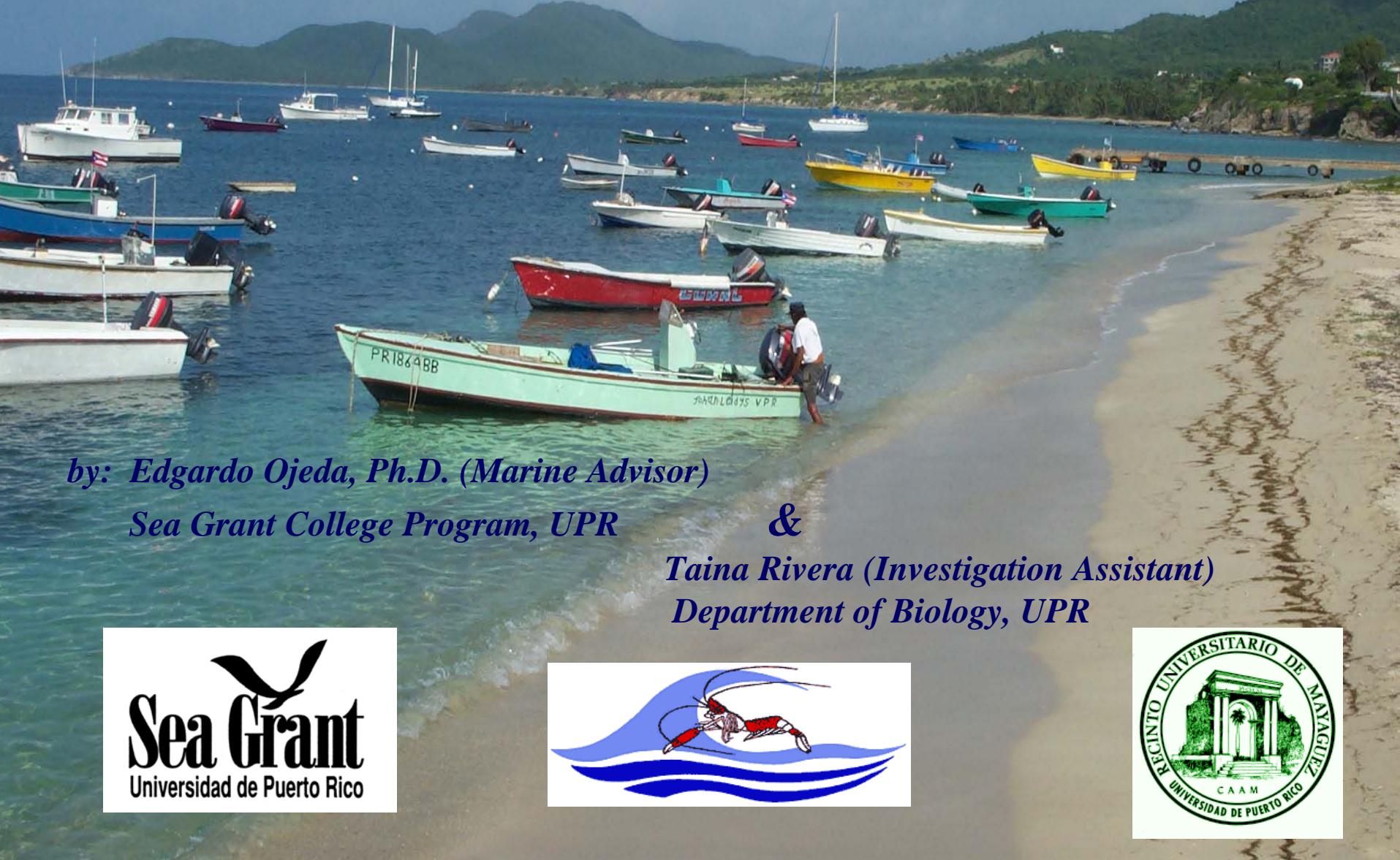


“Reef Fish Spawning Aggregations of the Puerto Rican Shelf”



by: *Edgardo Ojeda, Ph.D. (Marine Advisor)*

Sea Grant College Program, UPR &

*Taina Rivera (Investigation Assistant)
Department of Biology, UPR*



Objectives

- This study will identify and document fish spawning aggregations in Puerto Rico, with the collaboration and participation of local fishermen.
- Visit as many potential sites as possible to confirm the presence and condition of spawning aggregations.

Methods

- Fisher Survey Interview format general guidelines (Society for the Conservation of Reef Fish aggregations) Nov., 2003.
- Reef Fish Spawning Aggregation Monitoring Protocol for the Wider Caribbean. (Will Heyman et al., 2002)

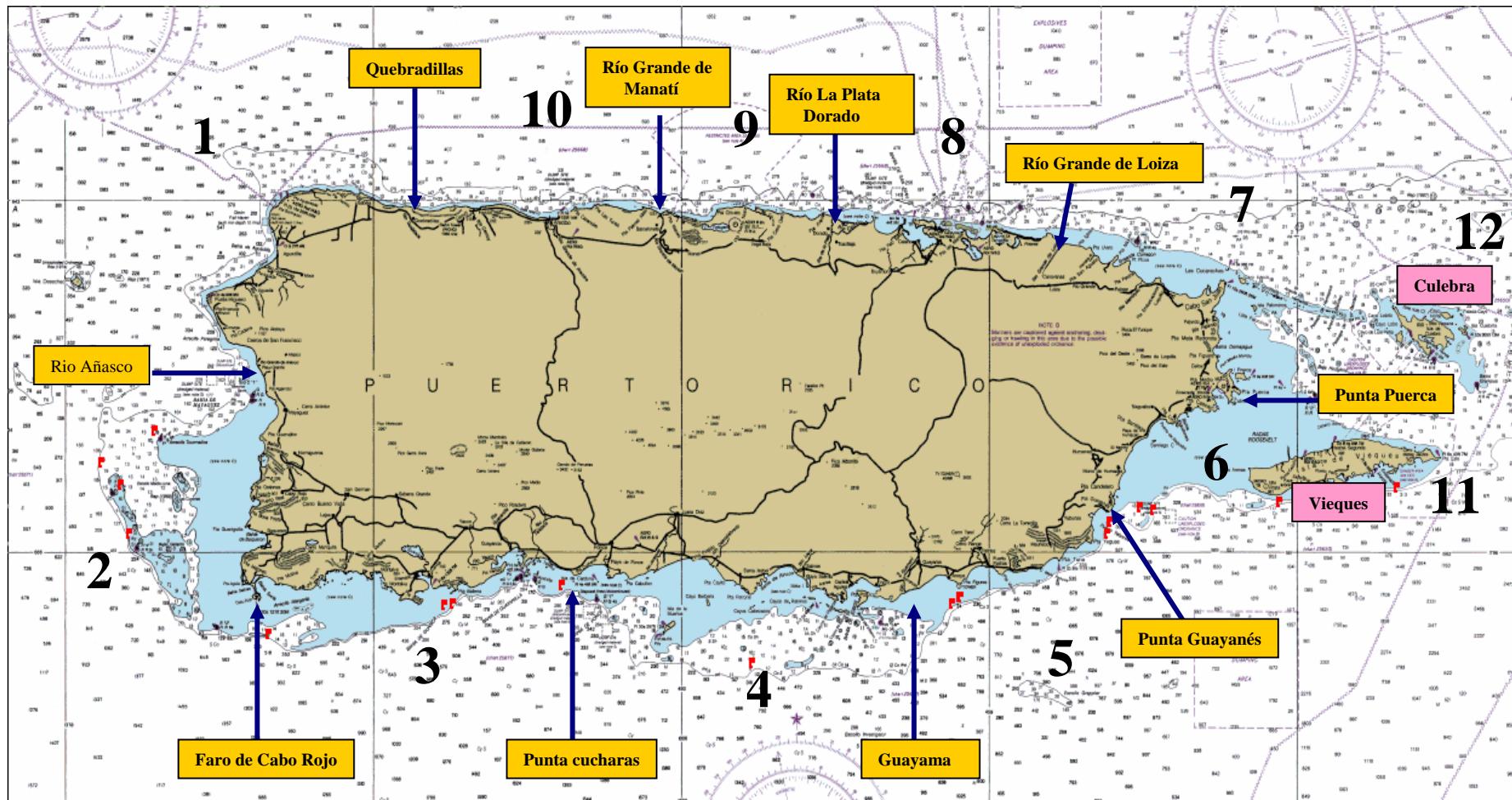
Work Done:

- *Bibliography revision (continuing).
- *SPAG-Interview tool.
- *Interview sampling design.
- *Graduate student (Taina Rivera) DMC-diving course certification.

Working on:

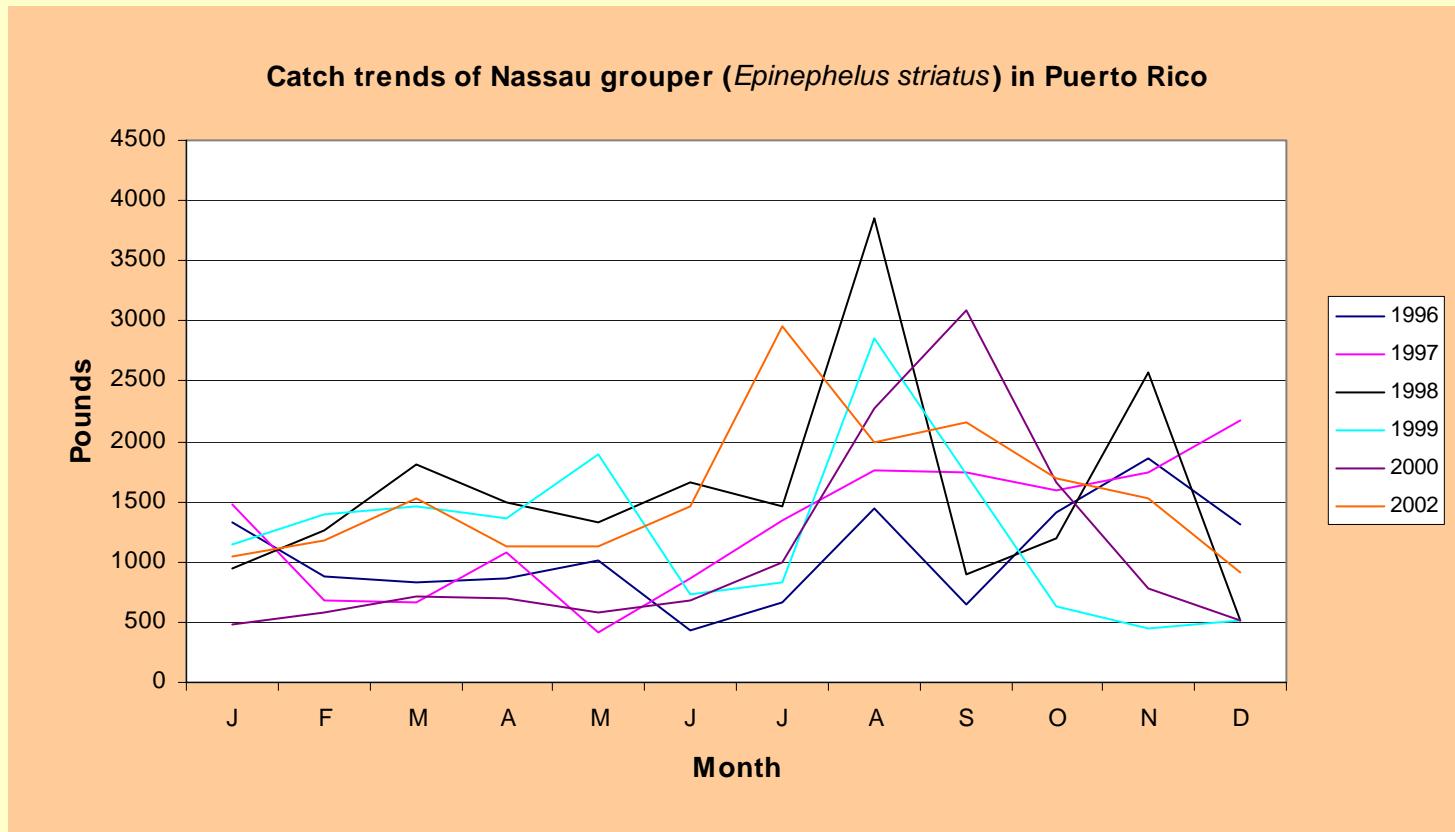
- *Testing interview tool.
- *Printing detailed maps by zones. (for interviews)
- *Fishers selection by zones.
- *SPAG-species identification charts.
 - commercial
 - non commercial

12 artificial fishers interview zones and fishing areas



Commercial fishing Catch trends 1996-2002

Epinephelus striatus

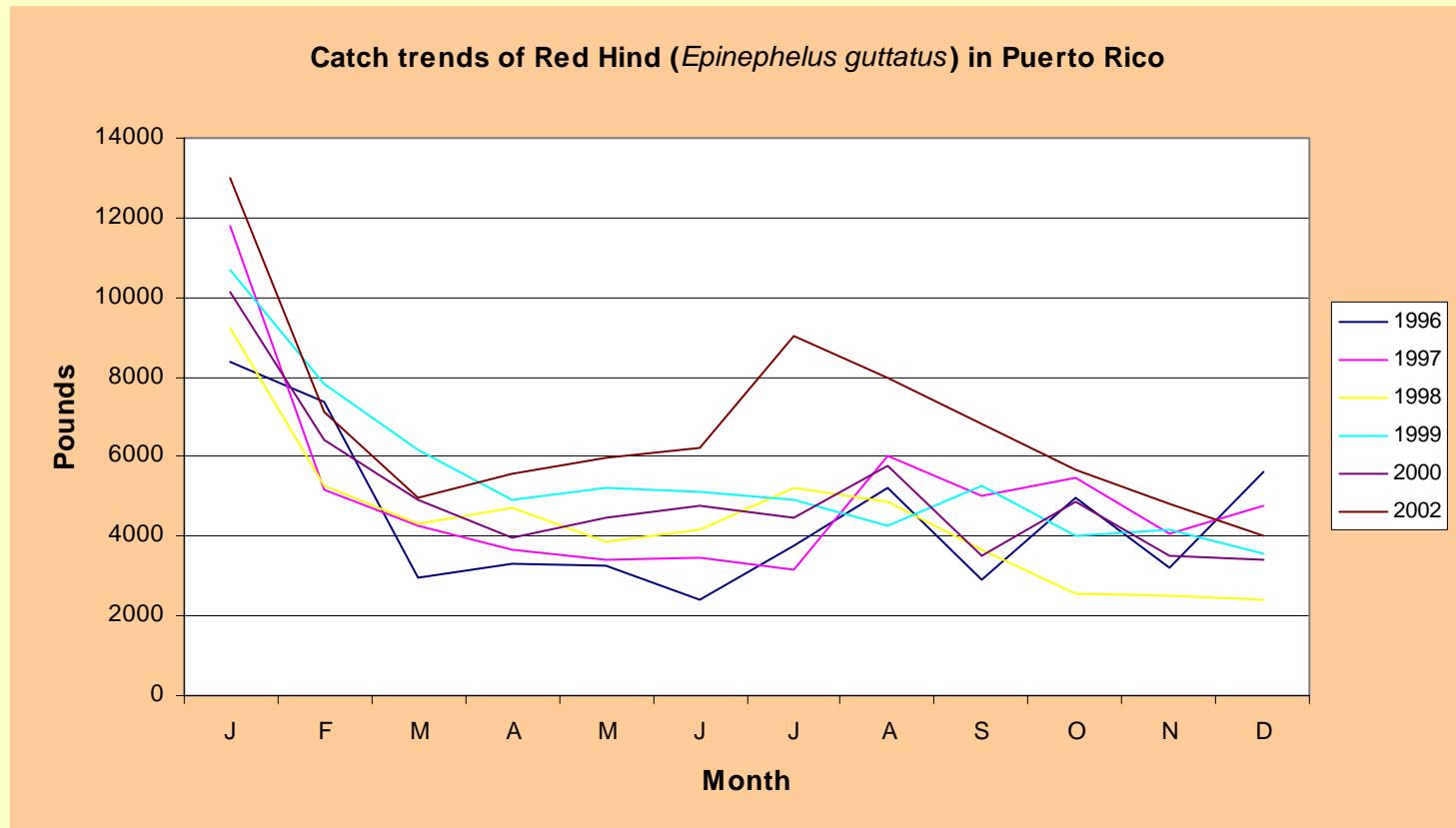


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Commercial fishing Catch trends 1996-2002

Epinephelus guttatus

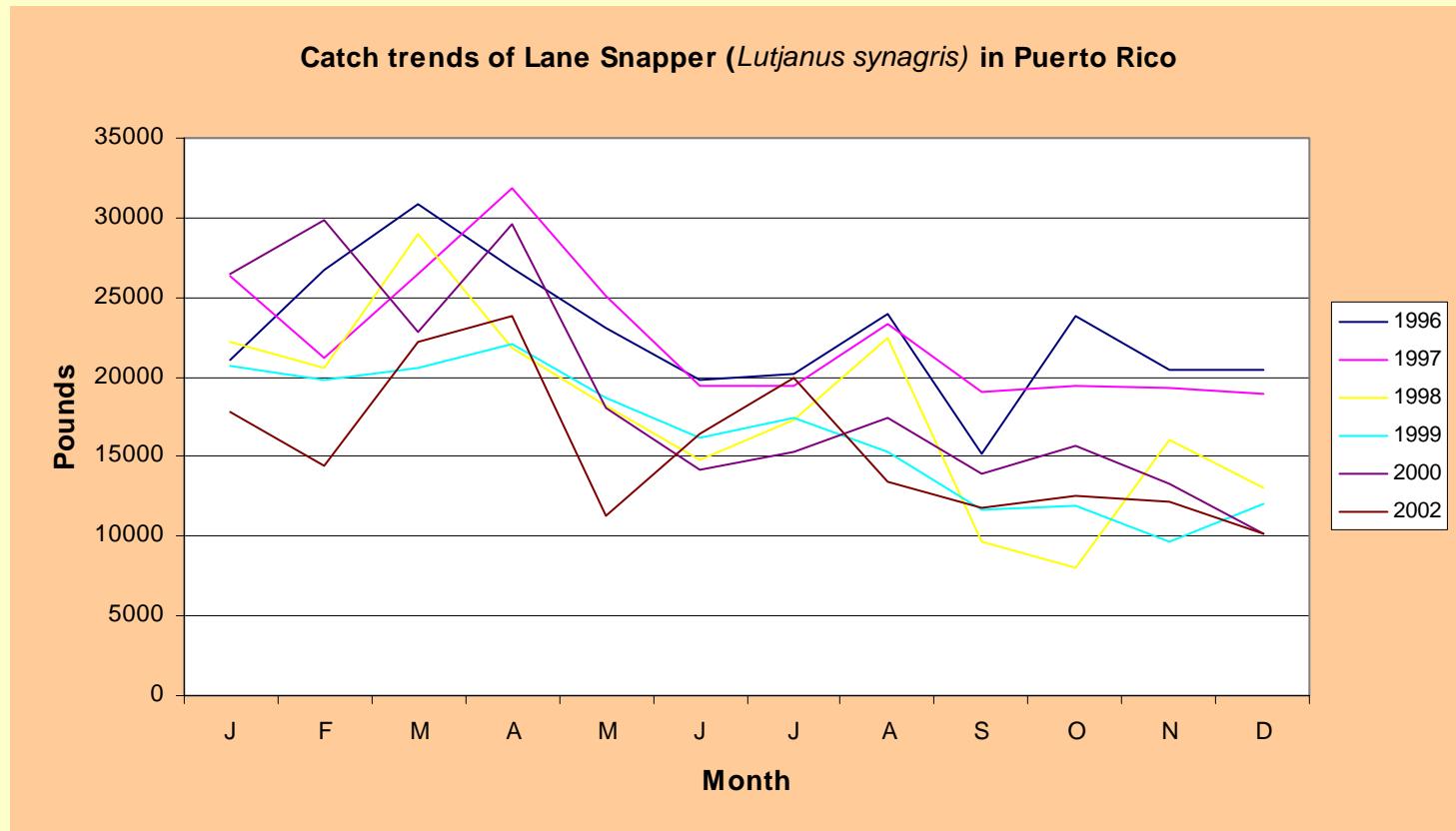


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Commercial fishing Catch trends 1996-2002

Lutjanus synagris

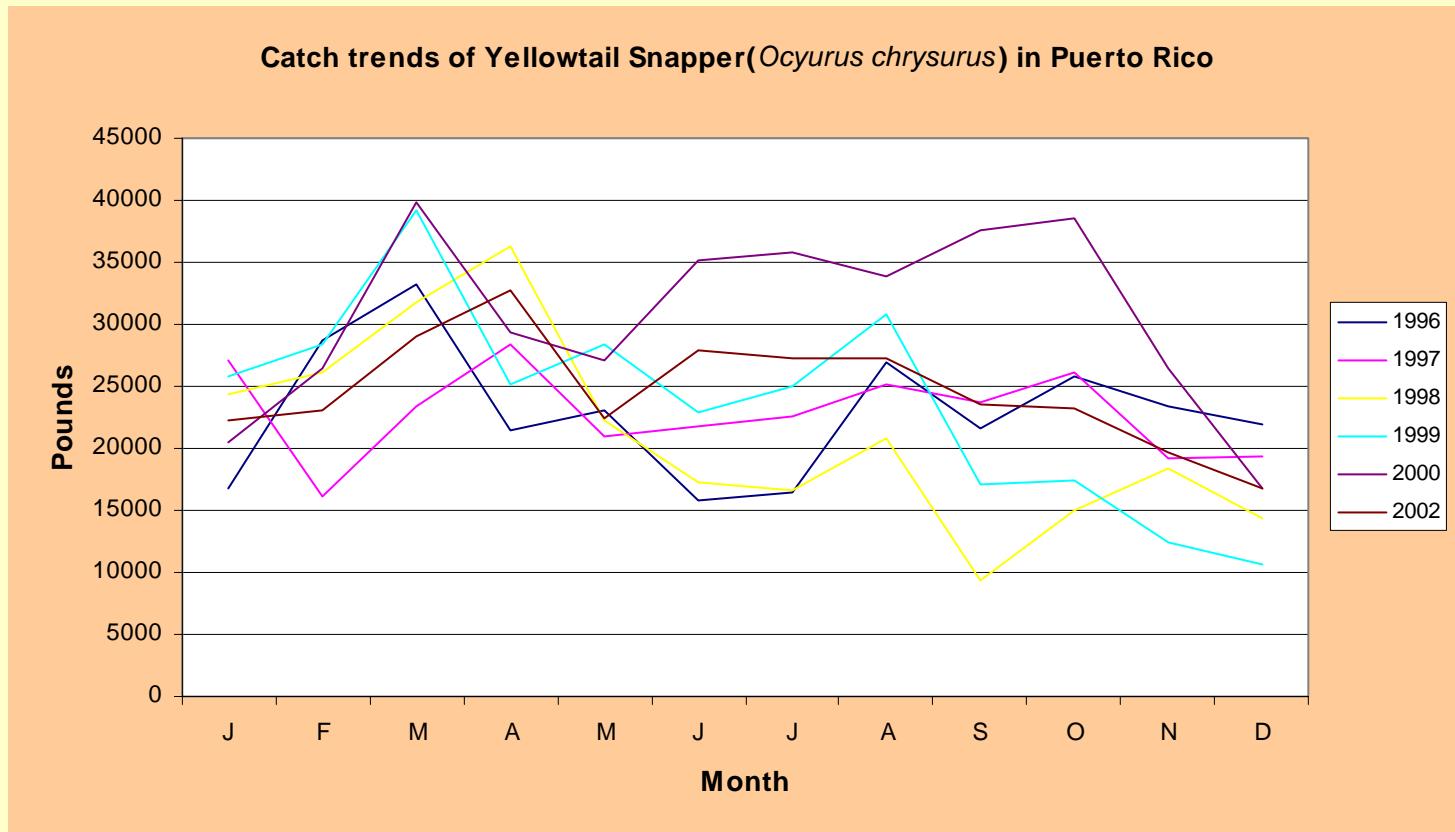


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Commercial fishing Catch trends 1996-2002

Ocyurus chrysurus

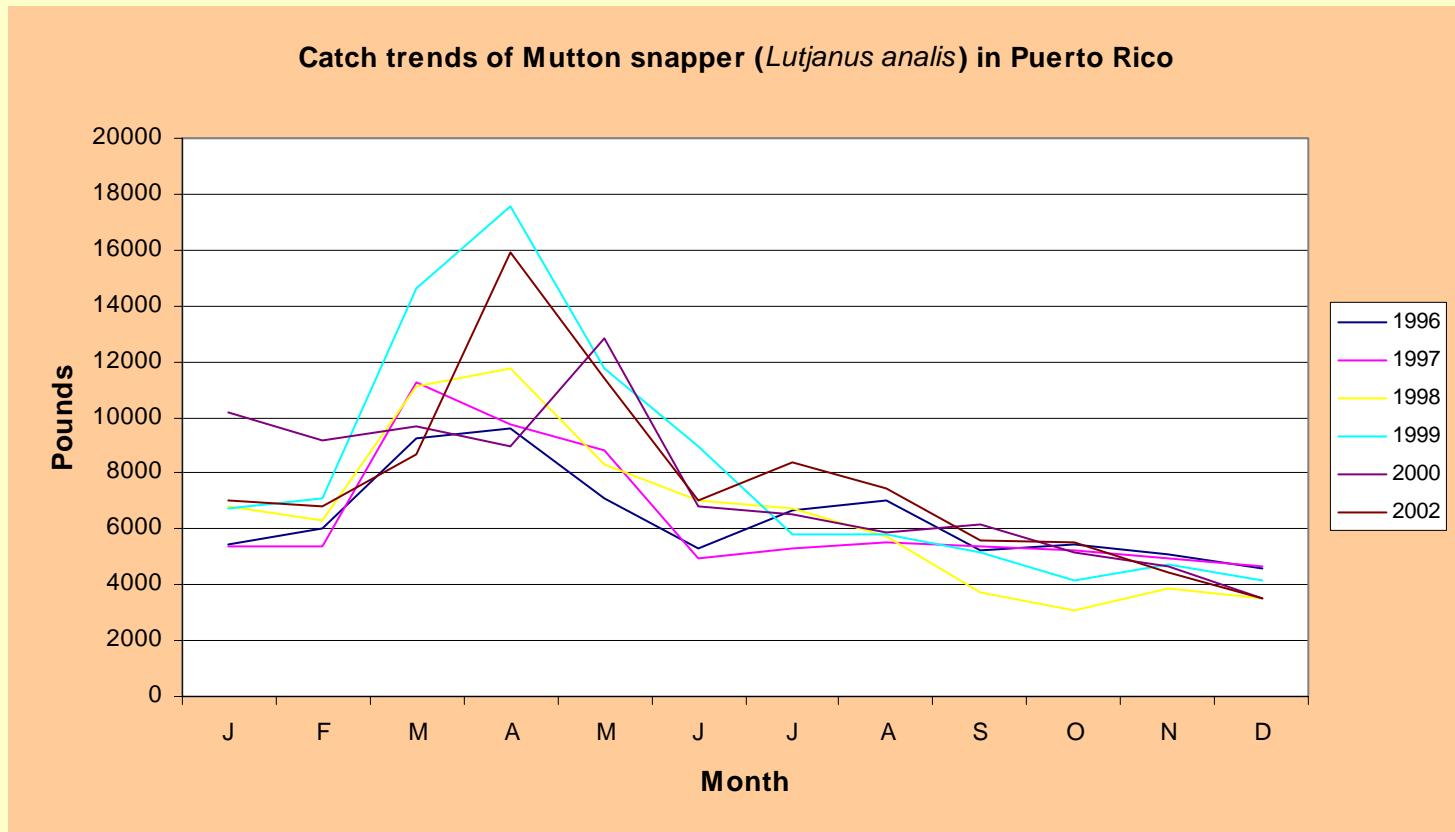


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Commercial fishing Catch trends 1996-2002

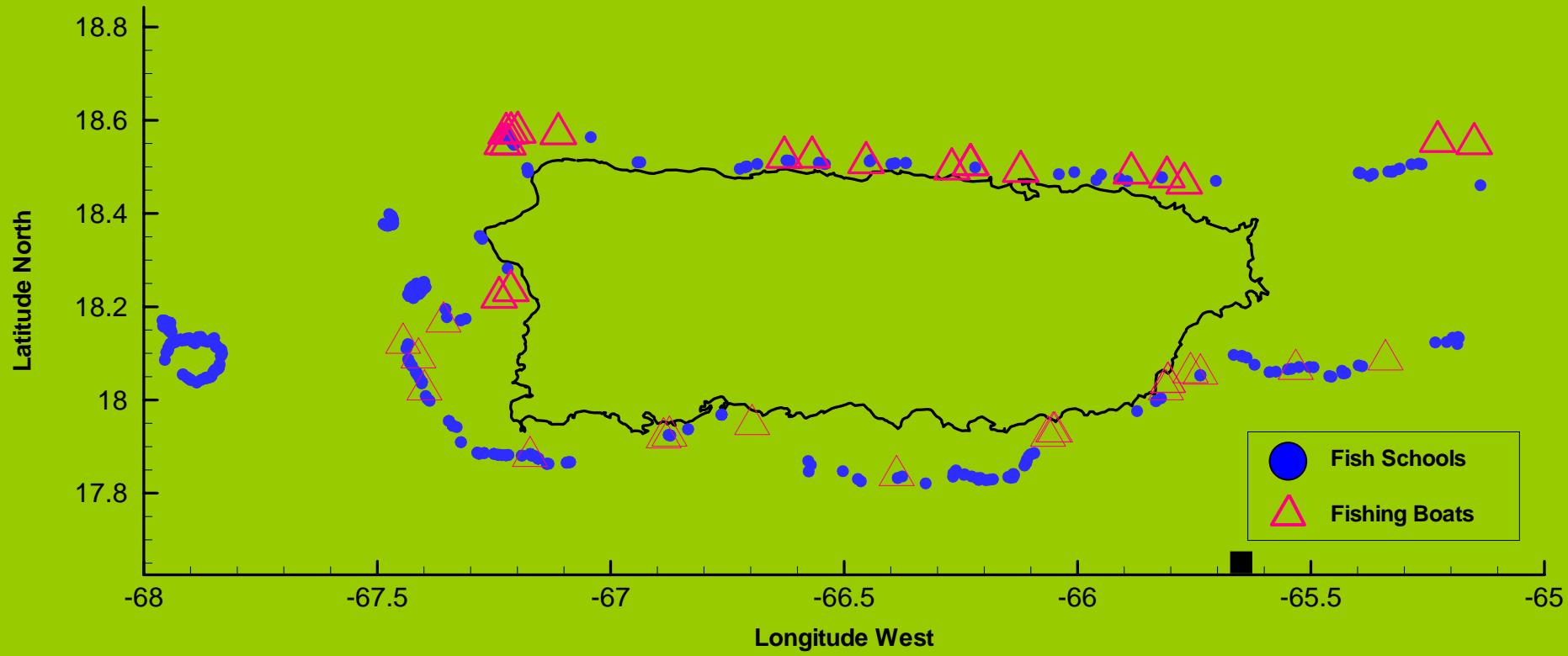
Lutjanus analis



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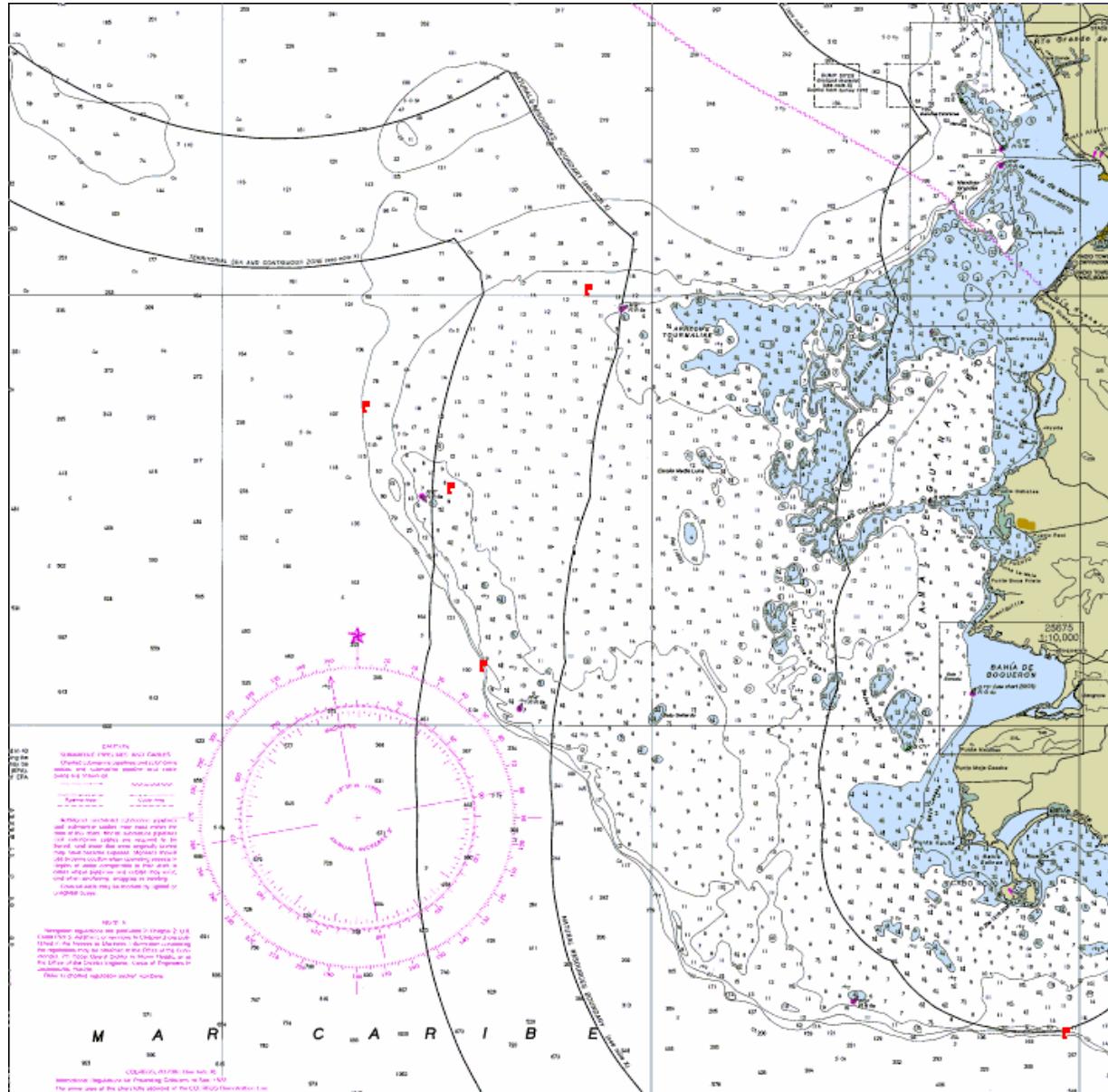
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Hydro-acoustic Survey of Puerto Rico 2002-2003



Jonhston et al., (in press, Fisheries Bulletin)

Southwest (Zone 2 - depth detailed map)



- *Thanks*

